TROX® TECHNIK
The art of handling air

AIR HANDLING UNIT

Innovative systems work reliably.
A suitable communication system allows for the efficient, safe and smooth interaction of all building services. The seamless integration of ventilation and air conditioning with the BMS is ensured by control and monitoring systems that provide comprehensive communication and configuration functions and hence a high level of flexibility. When X-AIRCONTROL is installed, room information such as damper blade positions or the heating and cooling energy required may be included in the control of the X-CUBE air handling unit.

TROX X-CUBE air handling units can be individually configured and are hence suitable for a wide range of applications. They can handle volume flow rates of 600 to 100,000 m³/h at an airflow velocity of 2 m/s. X-CUBE units are available as supply or extract air units or as a combination of both. It is possible to arrange several units side by side or on top of each other, depending on the installation location.

X-CUBE technology in a compact unit.
TROX has combined all the advantages of the X-CUBE into a ready-to-operate, pre-configured system that offers the same outstanding quality as the existing X-CUBE yet in the smallest unit possible. Two heat exchangers for volume flow rates of 600 to 6000 m³/h are the ideal solution for small and medium-sized applications, e.g. for supplying an entire wing of a building.

Effective filtration is conducive to health. The indoor climate affects the comfort, health and performance of room occupants. In this context, the separation of hazardous particles such as dust, pollen, aerosols, gases or micro-organisms from the fresh air by using suitable filter systems is an important aspect.

Recommended filter classes – EN 779

For hygienic reasons the fresh air should be filtered in two stages (IDA 1 and 2 to EN 16798-3). In general, only filters correctly marked and tested to EN 779 and EN 1822 must be used.

TROX ventilation fans may be used as decentralised units for the removal of stale air. They are also used as additional fans in ducts. The widest product portfolio available is made in Germany and meets the latest requirements of the ErP directive of the European Union.

Plastic and ATEX constructions are also available.

X-CUBE AIR HANDLING UNIT

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- Special materials
- Smooth internal and external surfaces
- Configurable
- Rapid and easy installation
- Complete condensate drainage due to special stainless steel condensate drip tray
- Easy access to components
- Construction variant with controls package is easily connected to the BMS
- High-quality TROX filters
- High energy efficiency due to heat recovery systems
- Highly efficient EC fans
- Weatherproof construction variant

TROX HIGH-EFFICIENCY FILTERS

are tested to EN 779 or EN 1822, fine dust filters of filter classes M5 to F9 are certified by EUROVENT.